PTO/SB/05 (06-03)
Approved for use through 07/31/2003. OMB 0651-0032

Under the Paperwork Reduction Act of 1995, no persons are requ		spond to a	collection	of informati	ion unless i						
HTH ITV	Attorney Docket No. 466992001100										
		nventor	Chor	ng-Sher	ng YUAI	<u>p</u>					
PATENT APPLICATION	T '''	DETE	RMINA	TION C	OF IONS	S USING ION-	۵~				
TRANSMITTAL	Title	SENS	ITIVE E	ENZYM	IES						
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Expres	ss Mail L	ahel No	FI 9	610055	67US	u s. 66588				
	Expro.	30 Wan E					-				
APPLICATION ELEMENTS		400	DECC T	Cor		pplication er for Patents	101				
See MPEP chapter 600 concerning utility patent application cor	itents.	ADDI	RESS T	F.0). Box 145		22				
Foo Transmittel Form (o.g. PTO/SR/17) (2 pages)			J CD-BOI			/A 22313-1450					
(Submit an original, and a duplicate for fee processing)	ransmittal Form (e.g., PTO/SB/17) (2 pages) it an original, and a duplicate for fee processing)				7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)						
2. Applicant claims small entity status. See 37 CFR 1.27.											
3. X Specification [Total Pages 46]	а.			able Form	(CRF)					
(preferred arrangement set forth below)		b.	 Specificati	on Sequer	nce Listing	on:					
 Cross Reference to Related Applications 	- Descriptive title of the invention										
 Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, 		с.	Stater	u ments verif	fying identi	ty of above copies	'				
or a computer program listing appendix - Background of the Invention		<u> </u>	ACCC	MPANY	ING APP	LICATIONS PARTS					
 Brief Summary of the Invention Brief Description of the Drawings (if filed) 		9.				neet & document(s))					
Detailed Description Claim(s)		10.	⊒	3.73(b) St	•	Power of					
- Abstract of the Disclosure		"	با (when tl	here Ìs an a	assignee)	Attorney					
4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 2	21	11.	English	Translatio	n Documer	nt (if applicable)					
5. Oath or Declaration [Total Sheets	aration [Total Sheets 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations										
a. Newly executed (original or copy)											
b Copy from a prior application (37 CFR 1.63(d)) 14 Return Receipt Postcard (MPEP 503)											
(for continuation/divisional with Box 18 completed)	(Should be specifically itemized)										
i. DELETION OF INVENTOR(S) Signed statement attached deleting			(if foreign priority is claimed)								
inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).			16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.								
		17.	Other:								
6. X Application Data Sheet. See 37 CFR 1.76 (2 pages)			_								
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification											
following the title, or in an Application Data Sheet under 37 CFF	the title, or in an Application Data Sheet under 37 CFR 1.76:										
Continuation Divisional Continuation	ation Divisional Continuation-in-part (CIP) of prior application No.:										
Prior application information: Examiner For CONTINUATION or DIVISIONAL APPS only: The entire of	licalocus	o of the pr	ior applica	Art Unit:	which an o	ath or declaration is sun	nlied under				
Box 5b, is considered a part of the disclosure of the accompany	ring conti	inuation o	r divisional	l application	on and is h	ereby incorporated by re	ference.				
The incorporation can only be relied upon when a portion has be 19. COR					nitted appl	ication parts.					
19. COR			ADDRE								
X Customer Number:	2	25225			OR	Correspondence addres	ss below				
Mome											
Name											
Address											
	·	r									
City Stat					Zip Code						
	phone				Fax						
Name (Print/Type) Lauri L. Hill	1/1	Reg	gistration N	lo. (Attorne	ey/Agent)	51,804					
Signature Xaunu X		/			Date	September 19, 20	003				
Justice C		•									
I hereby certify that this correspondence is being deposite											
in an envelope addressed to: Mail Stop Patent Application the date shown below.	n, Comr	nissioner	for Patent	ts, P.O. Bo	ox 1450, A	Alexandria, VA 22313-1	1450, on				
9-19-03		·									
Dated: 9-79-03 Signature:				(Micha	ael Boyd)						

PTO/SB/17 (05-03)

Approved for use through 04/30/2003. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

		Complete if Known								
FEE TRANSMITTAL	Application Number				er N	Not Yet Assigned				
for FY 2003	Filing Date				Concurrently Herewith					
	Ī	First Named Inventor			tor C	Chong-Sheng YUAN				
Effective 01/01/2003, Patent fees are subject to annual revision.	Examiner Name				Not Yet Assigned					
Applicant claims small entity status. See 37 CFR 1.27	Art Unit			١	Not Yet Assigned					
TOTAL AMOUNT OF PAYMENT (\$) 2,022.00	Attorney Docket No.					466992001100				
		71110111	=							
	METHOD OF PAYMENT (check all that apply) FEE CALCULATION Credit Money Other Name 2 APPLICANAL FEES									
Check Card Order Other None	3. ADDITIONAL FEES									
x Deposit Account										
Deposit Account 03-1952	Large Fee	Entity	Small	Entity	-					
Account 03-1952 Number	Code	(\$)	Code	(\$)		Fee Desc	ription	Fee Paid		
Deposit Account Morrison & Foerster LLP	1051	130	2051	65	Surcharge -	late filing fe	e or oath			
Name	1052	50	2052	25		late provisio	nal filing fee or cover			
The Director is hereby authorized to: (check all that apply)					sheet.					
X Charge fee(s) indicated below X Credit any overpayments	1053	130	1053	130	Non-English	specification	י			
X Charge any additional fee(s) during the pendency of this application	1812	2,520	1812	2,520	-		arte reexamination			
Charge fee(s) indicated below, except for the filing fee	1804	920*	1804	920*	Requesting p	tion	·			
to the above-identified deposit account.	1805	1,840°	1805	1,840*	Requesting p	oublication o	f SIR after			
FEE CALCULATION	1251	110	2251	55	Examiner act		first month			
1. BASIC FILING FEE	1252	410	2252	205			second month			
Large Entity Small Entity	1253	930	2253	465	Extension for	r reply within	third month			
Fee Fee Fee <u>Fee Description</u> Fee Paid	1254	1,450	2254	725	Extension for	r reply withir	fourth month			
Code (\$) Code (\$) 1001 750 2001 375 Utility filing fee 750.00	1255	1,970	2255	985	Extension for	r reply within	i fifth month			
1002 330 2002 165 Design filing fee	1401	320	2401	160	Notice of App					
1003 520 2003 260 Plant filing fee	1402	320	2402	160	Filing a brief	in support o	f an appeal			
1004 750 2004 375 Reissue filing fee	1403	280	2403	140	Request for o	oral hearing				
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to in:	stitute a pub	lic use proceeding			
SUBTOTAL (1) (\$) 750.00		110	2452	55	Petition to re	ition to revive – unavoidable				
(4)	1453	1,300	2453	650	Petition to re	vive - uninte	entional			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,300	2501	650	Utility issue f	ee (or reissu	ie)			
Extra Fee from Claims below Fee Paid	1502	470	2502	235	Design issue	fee				
Total Claims 72 -20** = 52 x 18.00 = 936.00	1503	630	2503	315	Plant issue for					
Independent 7 -3** = 4 x 84.00 = 336.00	1460	130	1460	130	Petitions to t					
Multiple Dependent =	1807	50	1807	50	Processing f	ee under 37	CFR 1.17(q)			
Large Entity Small Entity	1806	180	1806	180			n Disclosure Stmt			
Fee Fee Fee Fee Code (\$) Code (\$)	8021	40	8021	40	Recording ea property (tim		ssignment per of properties)			
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a subn	nission after	final rejection			
1201 84 2201 42 Independent claims in excess of 3					(37 CFR 1.1) For each add		ntion to be			
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For each additional invention to be examined (37CFR 1.129(b))					
1204 84 2204 42 ** Reissue independent claims over original patent	1801	750	2801	375	•		xamination (RCE)			
1205 18 2205 9 ** Reissue claims in excess of 20	1802				Request for of a design a		Carrinauori			
and over original patent	Other f	Other fee (specify)								
SUBTOTAL (2) (\$) 1,272.00	*Redu	iced by E	Basic Filing Fee Paid			SUBTO:	TAL (3) (\$)	0.00		
**or number previously paid, if greater; For Reissues, see above										
SUBMITTED BY Complete (if applicable)										
Name (Print/Type) Laurie L/ Hill	Registration No. (Attorney/Agent) 51,804 Telephone (858) 720-795						(858) 720-7955			
Signature Date September 19,								2003		
- Jumm J PU							,			